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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary**Application No.**

10/614,877

Applicant(s)

GORMISH, MICHAEL

Examiner

BLAKE RUBIN

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 July 2003.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-82 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-82 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 07 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/IS/C)
Paper No(s)/Mail Date 1/12/2005 and 3/25/2005
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

1. This action is a response to communications filed July 13, 2003.
2. Claims 1-82 are pending in this application.
3. This application claims priority to U.S. Provisional Patent Application No. 60/443,296, filed on December 13, 2002.

Specification

4. The disclosure is objected to because the item, "Requests 251" in Figure 2 is not mentioned in the specification. Appropriate correction is required.

Claim Objections

5. Claims 1, 19, 26, 44, 51, 65, 76 and 80 recite, "a JPM file" in lines 1 or 3, it is not clear how this limitation is related to the previously mentioned "JPM file" in claims 1, 26, 51, 76, and 80, line 2, respectively, which renders the claims indefinite. The examiner suggests amending aforementioned claims, lines 1 or 3 to recite, "the JPM file" to resolve the indefiniteness. Appropriate correction is required.
6. Claims 21, 46, and 67 recite, "sending another JPM file" in line 1, it is not clear how this limitation is related to the previously mentioned "another JPM file" in claims 19, 44, and 65, respectively, which renders the claims indefinite. If it is the applicants intention to reference "the another JPM file" then the examiner suggests amending the objectionable claims such a reference explicitly to resolve the indefiniteness.

Otherwise, if it is the applicants intention to reference successive JPM files, then the examiner suggest describing each JPM files as "first," "second," and so on, to resolve the indefiniteness. Appropriate correction is required.

7. The phrases "parts" and "portions" are used interchangeably throughout the claims, the applicant may consider using only one of these descriptors for the sake of clarity and consistency.

8. Claims 21 and 46 fail to conclude with a period. Appropriate correction is required.

Claim Rejections - 35 USC § 101

9. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

10. Claims 51-69 and 75 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

11. With respect to independent claims 51 and 75, the claims recite a "JPM file", which is considered functional descriptive material, not embodied in computer readable media. Where the claims recite "receive" and "transmit", the claim fails to provide a relationship towards a physical medium on which the "JPM file" is stored, and is therefor considered. See MPEP 2106.01:

- a. Data structures not claimed as embodied in computer-readable media are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer. See, e.g., Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention which permit the data structure's functionality to be realized. In contrast, a claimed computer-readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus statutory.
12. A necessary interrelationship between structural and functional embodiments necessary to be considered statutory subject matter. Furthermore, the applicant is reminded that the embodiment of a electromagnetic signal is non-statutory subject matter.
13. With respect to claim 75, the means plus function language necessitates the broadest interpretation of the embodiments found in the specification. Page 16, paragraphs [0053]-[0054], provide embodiments for "program" being stored or transmitted on various forms of signals, which directs the claim toward non-statutory subject matter.

14. With respect to dependent claims 52-69, the claims fail to resolve the deficiencies of the independent claims from which they are drawn from, and therefor are rejected on the grounds mentioned above.

Claim Rejections - 35 USC § 102

15. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

16. Claims 1-82 are rejected under 35 U.S.C. 102(b) as being anticipated by Buckley et al (“JPEG 2000 Part 6 FCD 15444-6”, hereinafter Buckley).

17. With respect to claim 1, Buckley discloses a method comprising:

receiving a plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*) for portions of a JPM file (page 73, paragraph 1); and

transmitting a JPM file in parts in response to the plurality of requests (page 73, paragraph 1, lines 3-4), wherein each of the parts is a legal JPM file (page 73, paragraph 1, lines 3-4).

18. With respect to claim 2, Buckley discloses the method defined in claim 1 wherein the portions are selected from a group consisting of one or more desired pages (page 7, Section 5.2.2 Pages, lines 1-2), one or more desired regions on a page (page 7, Section

5.2.3 Layout Objects, paragraph 1, lines 2-3), desired resolution for data being returned (page 7, Section 5.2.2 Pages, lines 1-2), a desired technique to receive returned data (page 12, Section 5.2.6 Contiguous and Fragmented Codestreams, paragraph 4, *compression type*), and an indication of data from the JPM file that has already been received (page 26, lines 1-2).

19. With respect to claim 3, Buckley discloses the method defined in claim 1 wherein the request is selected from a group consisting of a spatial portion of a page (page 7, Section 5.2.3 Layout Objects, paragraph 1), a lower resolution of a page (page 11, Section 5.2.5 Thumbnails, paragraph 5, *small icon*), a range of pages (page 6, Section 5.2.1 Page Collections, paragraph 1, lines 1-2), and non-label boxes (page 53, Section B.6.6 Free box).

20. With respect to claim 4, Buckley discloses the method defined in claim 1 wherein at least one of the requests specifies a box type in the JPM file (page 17, Section A.3 Box Definitions, Subsection **TBox**) and at least one of the parts of the JPM file includes information stored in one or more of each box of the box type specified in the at least one request (page 17, Section A.3 Box Definitions, Subsection **TBox**).

21. With respect to claim 5, Buckley discloses the method defined in claim 4 wherein the at least one request further specifies a sub-box associated with the box type (page

73, Annex G, paragraph 1, lines 1-2), and wherein the response includes data associated with the sub-box of the box type (page 73, Annex G, paragraph 1, lines 3-4).

22. With respect to claim 6, Buckley discloses the method defined in claim 1 wherein at least one of the plurality of requests specifies a box in the JPM file starting at an offset (page 13, paragraph 2, lines 1-2).

23. With respect to claim 7, Buckley discloses the method defined in claim 6 wherein the response returns all of the contents of the box (page 13, paragraph 3, lines 6-8).

24. With respect to claim 8, Buckley discloses the method defined in claim 1 wherein at least one of the plurality of requests specifies page size that a page in the JPM file would take on a display (page 19, Table A-1, *Default Display Resolution*) and specifies a portion of an image requested within the page (page 19, Table A-1, *Object*).

25. With respect to claim 9, Buckley discloses the method defined in claim 1 wherein at least one parameter in at least one of the plurality of requests indicates a range (page 74, Section G.7 Byte Ranges, lines 1-3).

26. With respect to claim 10, Buckley discloses the method defined in claim 1 wherein at least one of the plurality of requests includes an offset from an object box (page 12, Section 5.2.7 Shared Data, lines 3-4) to obtain a portion of a codestream pointed to by

the offset (page 12, Section 5.2.6 Contiguous and Fragmented Codestreams, paragraph 2, lines 1-2).

27. With respect to claim 11, Buckley discloses the method defined in claim 1 wherein at least one of the plurality of requests specifies a frame size (page 19, Table A-1, *Default Display Resolution*), a region offset (page 8, Figure 5-1 Layout Object Region), and a region size (page 8, Figure 5-2 Object Scaling and Positioning) to identify a portion of a codestream to obtain (page 7, Section 5.2.3 Layout Objects, paragraph 2).

28. With respect to claim 12, Buckley discloses the method defined in claim 1 wherein at least one of the plurality of requests includes a page request parameter (page 73, Section G.2 Metadata boxes).

29. With respect to claim 13, Buckley discloses the method defined in claim 1 further comprising storing the JPM file on a server using external file storage (page 15, Section A.2 File Organization, paragraph 3).

30. With respect to claim 14, Buckley discloses the method defined in claim 1 further comprising storing the JPM file on a server with a plurality of codestreams in shared data entry boxes (page 12, Section 5.2.6 Contiguous and Fragmented Codestreams, paragraph 2, lines 4-5).

31. With respect to claim 15, Buckley discloses the method defined in claim 1 further comprising:

collecting boxes in the JPM file relevant to at least one of the plurality of requests (page 7, Section "Encyclopedia example", paragraph 2, lines 1-5);

forming a new JPM file with the boxes that are relevant to the at least one request, including adjusting any references of the boxes to new locations in the file (page 7, Section "Encyclopedia example", paragraph 2, lines 1-5); and

transmitting the new JPM file (page 7, Section "Encyclopedia example", paragraph 2, lines 1-2, *return*).

32. With respect to claim 16, Buckley discloses the method defined in claim 15 wherein forming the new JPM file comprises eliminating pointers to external files (page 13, paragraph 5, *old fragment table can be turned into a free box*).

33. With respect to claim 17, Buckley discloses the method defined in claim 15 where forming the new JPM file comprises adjusting page counts and the number of objects on a page (page 13, paragraph 4, lines 1-5).

34. With respect to claim 18, Buckley discloses the method defined in claim 17 wherein adjusting page counts and the number of objects on a page comprises adjusting only those pages and objects needed to fulfill at least one of the plurality of requests (page 13, paragraph 4, lines 1-5).

35. With respect to claim 19, Buckley discloses the method defined in claim 1 wherein transmitting a JPM file in parts in response to the plurality of requests comprises transmitting another JPM file with at least one reference to at least one externally stored file (page 13, paragraph 6).

36. With respect to claim 20, Buckley discloses the method defined in claim 19 wherein the at least one externally stored file comprises at least one externally stored codestream (page 13, paragraph 7, lines 5-8).

37. With respect to claim 21, Buckley discloses the method defined in claim 19 further comprising sending another JPM file with references to data in a previously sent JPM file (page 6, Section 5.2.1 Page Collections, paragraph 7 [Search results example], lines 3-6, *next page*).

38. With respect to claim 22, Buckley discloses the method defined in claim 1 further comprising grouping the JPM file with any externally referenced files and sending the grouping in response to at least one of the plurality of requests (page 6, Section 5.2.1 Page Collections, paragraph 7 [Search results example], lines 1-3, *search results page*).

39. With respect to claim 23, Buckley discloses the method defined in claim 22 wherein the grouping is a MIME file (page 73, Section F.1 XML Encoding Example, paragraph 1).

40. With respect to claim 24, Buckley discloses the method defined in claim 1 wherein transmitting a JPM file in parts in response to the plurality of requests comprises transmitting the JPM file with changed references for objects that are not part of one or more requests to point to a file on a server without removing pages or layout objects (page 13, paragraphs 5-6).

41. With respect to claim 25, Buckley discloses the method defined in claim 24 further comprising: sending another JPM file that includes codestream data that extends one or more codestreams in the previously sent JPM file (page 6, Section 5.2.1 Page Collections, paragraph 7 [Search results example], lines 3-6, *next page*).

42. With respect to claim 26, Buckley discloses an article of manufacture having one or more recordable media storing executable instructions thereon which, when executed by a system (page 13, paragraph 2, lines 1), cause the system to perform a method comprising:

receiving a plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, a *search* and *next page function*) for portions of a JPM file (page 73, paragraph 1); and

transmitting a JPM file in parts in response to the plurality of requests (page 73, paragraph 1, lines 3-4), wherein each of the parts is a legal JPM file (page 73, paragraph 1, lines 3-4).

43. With respect to claim 27, Buckley discloses the article of manufacture defined in claim 26 wherein the portions are selected from a group consisting of one or more desired pages (page 7, Section 5.2.2 Pages, lines 1-2), one or more desired regions on a page (page 7, Section 5.2.3 Layout Objects, paragraph 1, lines 2-3), desired resolution for data being returned (page 7, Section 5.2.2 Pages, lines 1-2), a desired technique to receive returned data (page 12, Section 5.2.6 Contiguous and Fragmented Codestreams, paragraph 4, *compression type*), and an indication of data from the JPM file that has already been received (page 26, lines 1-2)

44. With respect to claim 28, Buckley discloses the article of manufacture defined in claim 26 wherein the request is selected from a group consisting of a spatial portion of a page (page 7, Section 5.2.3 Layout Objects, paragraph 1), a lower resolution of a page (page 11, Section 5.2.5 Thumbnails, paragraph 5, *small icon*), a range of pages (page 6, Section 5.2.1 Page Collections, paragraph 1, lines 1-2), and non-label boxes (page 53, Section B.6.6 Free box).

45. With respect to claim 29, Buckley discloses the article of manufacture defined in claim 26 wherein at least one of the requests specifies a box type in the JPM file (page

17, Section A.3 Box Definitions, Subsection **TBox**) and at least one of the parts of the JPM file includes information stored in one or more of each box of the box type specified in the at least one request (page 17, Section A.3 Box Definitions, Subsection **TBox**).

46. With respect to claim 30, Buckley discloses the article of manufacture defined in claim 29 wherein the at least one request further specifies a sub-box associated with the box type (page 73, Annex G, paragraph 1, lines 1-2), and wherein the response includes data associated with the sub-box of the box type (page 73, Annex G, paragraph 1, lines 3-4).

47. With respect to claim 31, Buckley discloses the article of manufacture defined in claim 26 wherein at least one of the plurality of requests specifies a box in the JPM file starting at an offset (page 13, paragraph 2, lines 1-2).

48. With respect to claim 32, Buckley discloses the article of manufacture defined in claim 31 wherein the response returns all of the contents of the box (page 13, paragraph 3, lines 6-8).

49. With respect to claim 33, Buckley discloses the article of manufacture defined in claim 26 wherein at least one of the plurality of requests specifies page size that a page in the JPM file would take on a display (page 19, Table A-1, *Default Display Resolution*)

and specifies a portion of an image requested within the page (page 19, Table A-1, *Object*).

50. With respect to claim 34, Buckley discloses the article of manufacture defined in claim 26 wherein at least one parameter in at least one of the plurality of requests indicates a range (page 74, Section G.7 Byte Ranges, lines 1-3).

51. With respect to claim 35, Buckley discloses the article of manufacture defined in claim 26 wherein at least one of the plurality of requests includes an offset from an object box (page 12, Section 5.2.7 Shared Data, lines 3-4) to obtain a portion of a codestream pointed to by the offset (page 12, Section 5.2.6 Contiguous and Fragmented Codestreams, paragraph 2, lines 1-2).

52. With respect to claim 36, Buckley discloses the article of manufacture defined in claim 26 wherein at least one of the plurality of requests specifies a frame size (page 19, Table A-1, *Default Display Resolution*), a region offset (page 8, Figure 5-1 Layout Object Region), and a region size (page 8, Figure 5-2 Object Scaling and Positioning) to identify a portion of a codestream to obtain (page 7, Section 5.2.3 Layout Objects, paragraph 2).

53. With respect to claim 37, Buckley discloses the article of manufacture defined in claim 26 wherein at least one of the plurality of requests includes a page request parameter (page 73, Section G.2 Metadata boxes).

54. With respect to claim 38, Buckley discloses the article of manufacture defined in claim 26 wherein the method further comprises storing the JPM file on a server using external file storage (page 15, Section A.2 File Organization, paragraph 3).

55. With respect to claim 39, Buckley discloses the article of manufacture defined in claim 26 wherein the method further comprises storing the JPM file on a server with a plurality of codestreams in shared data entry boxes (page 12, Section 5.2.6 Contiguous and Fragmented Codestreams, paragraph 2, lines 4-5).

56. With respect to claim 40, Buckley discloses the article of manufacture defined in claim 26 wherein the method further comprises:

collecting boxes in the JPM file relevant to at least one of the plurality of requests (page 7, Section "Encyclopedia example", paragraph 2, lines 1-5);

forming a new JPM file with the boxes that are relevant to the at least one request, including adjusting any references of the boxes to new locations in the file (page 7, Section "Encyclopedia example", paragraph 2, lines 1-5); and

transmitting the new JPM file (page 7, Section "Encyclopedia example", paragraph 2, lines 1-2, *return*).

57. With respect to claim 41, Buckley discloses the article of manufacture defined in claim 40 wherein forming the new JPM file comprises eliminating pointers to external files (page 13, paragraph 5, *old fragment table can be turned into a free box*).

58. With respect to claim 42, Buckley discloses the article of manufacture defined in claim 40 wherein forming the new JPM file comprises adjusting page counts and the number of objects on a page (page 13, paragraph 4, lines 1-5).

59. With respect to claim 43, Buckley discloses the article of manufacture defined in claim 42 wherein adjusting page counts and the number of objects on a page comprises adjusting only those pages and objects needed to fulfill at least one of the plurality of requests (page 13, paragraph 4, lines 1-5).

60. With respect to claim 44, Buckley discloses the article of manufacture defined in claim 26 wherein transmitting a JPM file in parts in response to the plurality of requests comprises transmitting another JPM file with at least one reference to at least one externally stored file (page 13, paragraph 6).

61. With respect to claim 45, Buckley discloses the article of manufacture defined in claim 44 wherein the at least one externally stored file comprises at least one externally stored codestream (page 13, paragraph 7, lines 5-8).

62. With respect to claim 46, Buckley discloses the article of manufacture defined in claim 44 wherein the method further comprises sending another JPM file with references to data in a previously sent JPM file (page 6, Section 5.2.1 Page Collections, paragraph 7 (Search results example), lines 3-6, *next page*).

63. With respect to claim 47, Buckley discloses the article of manufacture defined in claim 26 wherein the method further comprises grouping the JPM file with any externally referenced files and sending the grouping in response to at least one of the plurality of requests (page 6, Section 5.2.1 Page Collections, paragraph 7 (Search results example), lines 1-3, *search results page*).

64. With respect to claim 48, Buckley discloses the article of manufacture defined in claim 47 wherein the grouping is a MIME file (page 73, Section F.1 XML Encoding Example, paragraph 1).

65. With respect to claim 49, Buckley discloses the article of manufacture defined in claim 26 wherein transmitting a JPM file in parts in response to the plurality of requests comprises transmitting the JPM file with changed references for objects that are not part of one or more requests to point to a file on a server without removing pages or layout objects (page 13, paragraphs 5-6).

66. With respect to claim 50, Buckley discloses the article of manufacture defined in claim 49 wherein the method further comprises:

sending another JPM file that includes codestream data that extends one or more codestreams in the previously sent JPM file (page 6, Section 5.2.1 Page Collections, paragraph 7 [Search results example], lines 3-6, *next page*).

67. With respect to claim 51, Buckley discloses an apparatus comprising:

an input (page 13, paragraph 2, lines 1, *client*) to receive a plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*) for portions of a JPM file (page 73, paragraph 1); and

a server core (page 13, paragraph 2, lines 1) to transmit a JPM file in parts in response to the plurality of requests (page 73, paragraph 1, lines 3-4), wherein each of the parts is a legal JPM file (page 73, paragraph 1, lines 3-4).

68. With respect to claim 52, Buckley discloses the apparatus defined in claim 51 wherein the portions are selected from a group consisting of one or more desired pages (page 7, Section 5.2.2 Pages, lines 1-2), one or more desired regions on a page (page 7, Section 5.2.3 Layout Objects, paragraph 1, lines 2-3), desired resolution for data being returned (page 7, Section 5.2.2 Pages, lines 1-2), a desired technique to receive returned data (page 12, Section 5.2.6 Contiguous and Fragmented Codestreams, paragraph 4, *compression type*), and an indication of data from the JPM file that has already been received (page 26, lines 1-2)

69. With respect to claim 53, Buckley discloses the apparatus defined in claim 51 wherein the request is selected from a group consisting of a spatial portion of a page (page 7, Section 5.2.3 Layout Objects, paragraph 1), a lower resolution of a page (page 11, Section 5.2.5 Thumbnails, paragraph 5, *small icon*), a range of pages (page 6, Section 5.2.1 Page Collections, paragraph 1, lines 1-2), and non-label boxes (page 53, Section B.6.6 Free box).

70. With respect to claim 54, Buckley discloses the apparatus defined in claim 51 wherein at least one of the requests specifies a box type in the JPM file (page 17, Section A.3 Box Definitions, Subsection **TBox**) and at least one-of the parts of the JPM file includes information stored in one or more of each box of the box type specified in the at least one request (page 17, Section A.3 Box Definitions, Subsection **TBox**).

71. With respect to claim 55, Buckley discloses the apparatus defined in claim 54 wherein the at least one request further specifies a sub-box associated with the box type (page 73, Annex G, paragraph 1, lines 1-2), and wherein the response includes data associated with the sub-box of the box type (page 73, Annex G, paragraph 1, lines 3-4).

72. With respect to claim 56, Buckley discloses the apparatus defined in claim 51 wherein at least one of the plurality of requests specifies a box in the JPM file starting at an offset (page 13, paragraph 2, lines 1-2).

73. With respect to claim 57, Buckley discloses the apparatus defined in claim 56 wherein the response returns all of the contents of the box (page 13, paragraph 3, lines 6-8).

74. With respect to claim 58, Buckley discloses the apparatus defined in claim 51 wherein at least one of the plurality of requests specifies page size that a page in the JPM file would take on a display (page 19, Table A-1, *Default Display Resolution*) and specifies a portion of an image requested within the page (page 19, Table A-1, *Object*).

75. With respect to claim 59, Buckley discloses the apparatus defined in claim 51 wherein at least one parameter in at least one of the plurality of requests indicates a range (page 74, Section G.7 Byte Ranges, lines 1-3).

76. With respect to claim 60, Buckley discloses the apparatus defined in claim 51 wherein at least one of the plurality of requests includes an offset from an object box (page 12, Section 5.2.7 Shared Data, lines 3-4) to obtain a portion of a codestream pointed to by the offset (page 12, Section 5.2.6 Contiguous and Fragmented Codestreams, paragraph 2, lines 1-2).

77. With respect to claim 61, Buckley discloses the apparatus defined in claim 51 wherein at least one of the plurality of requests specifies a frame size (page 19, Table A-1, *Default Display Resolution*), a region offset (page 8, Figure 5-1 Layout Object Region), and a region size (page 8, Figure 5-2 Object Scaling and Positioning) to identify a portion of a codestream to obtain (page 7, Section 5.2.3 Layout Objects, paragraph 2).

78. With respect to claim 62, Buckley discloses the method defined in claim 51 wherein at least one of the plurality of requests includes a page request parameter (page 73, Section G.2 Metadata boxes).

79. With respect to claim 63. The apparatus defined in claim 51 wherein the server core stores the JPM file in an external file storage (page 15, Section A.2 File Organization, paragraph 3).

80. With respect to claim 64, Buckley discloses the apparatus defined in claim 51 wherein the server core stores the JPM file with a plurality of codestreams in shared data entry boxes (page 12, Section 5.2.6 Contiguous and Fragmented Codestreams, paragraph 2, lines 4-5).

81. With respect to claim 65, Buckley discloses the apparatus defined in claim 51 wherein the server core transmits a JPM file in parts in response to the plurality of requests by transmitting another JPM file with at least one reference to at least one externally stored file (page 13, paragraph 6).

82. With respect to claim 66, Buckley discloses the apparatus defined in claim 65 wherein the at least one externally stored file comprises at least one externally stored codestream (page 13, paragraph 7, lines 5-8).

83. With respect to claim 67, Buckley discloses the apparatus defined in claim 65 further comprising sending another JPM file with references to data in a previously sent JPM file (page 6, Section 5.2.1 Page Collections, paragraph 7 [Search results example], lines 3-6, *next page*).

84. With respect to claim 68, Buckley discloses the apparatus defined in claim 51 wherein the server core transmits a JPM file in parts in response to the plurality of requests by transmitting the JPM file with changed references for objects that are not part of one or more requests to point to a file on a server without removing pages or layout objects (page 13, paragraphs 5-6).

85. With respect to claim 69, Buckley discloses the apparatus defined in claim 68 further comprising:

sending another JPM file that includes codestream data that extends one or more codestreams in the previously sent JPM file (page 6, Section 5.2.1 Page Collections, paragraph 7 [Search results example], lines 3-6, *next page*).

86. With respect to claim 70, Buckley discloses a method comprising:

collecting boxes in a JPM file (page 73, paragraph 1) relevant to at least one of the plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*);

forming a new JPM file (page 73, paragraph 1, lines 3-4) with the boxes that are relevant to the at least one request (page 73, paragraph 1, lines 3-4), including adjusting any references of the boxes to new locations in the file boxes (page 13, paragraph 5); and

transmitting the new JPM file (page 73, paragraph 1, lines 3-4).

87. With respect to claim 71, Buckley discloses the method defined in claim 70 wherein forming the new JPM file comprises eliminating pointers to external files (page 13, paragraph 5, *old fragment table can be turned into a free box*).

88. With respect to claim 72, Buckley discloses the method defined in claim 70 where forming the new JPM file comprises adjusting page counts and the number of objects on a page (page 13, paragraph 4, lines 1-5).

89. With respect to claim 73, Buckley discloses the method defined in claim 72 wherein adjusting page counts and the number of objects on a page comprises adjusting only those pages and objects needed to fulfill at least one of the plurality of requests (page 13, paragraph 4, lines 1-5).

90. With respect to claim 74, Buckley discloses an article of manufacture having one or more recordable media storing executable instructions thereon which, when executed by a system (page 13, paragraph 2, lines 1), cause the system to perform a method comprising:

collecting boxes in a JPM file (page 73, paragraph 1) relevant to at least one of the plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*);

forming a new JPM file (page 73, paragraph 1, lines 3-4) with the boxes that are relevant to the at least one request (page 13, paragraph 4, lines 1-5), including adjusting any references of the boxes to new locations in the file (page 13, paragraph 5); and

transmitting the new JPM file (page 73, paragraph 1, lines 3-4).

91. With respect to claim 75, Buckley discloses an apparatus comprising:

means for collecting boxes in a JPM file (page 73, paragraph 1) relevant to at least one of the plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*);

means for forming a new JPM file (page 73, paragraph 1, lines 3-4) with the boxes that are relevant to the at least one request (page 73, paragraph 1, lines 3-4), including adjusting any references of the boxes to new locations in the file (page 13, paragraph 5); and

means for transmitting the new JPM file (page 73, paragraph 1, lines 3-4).

92. With respect to claim 76, Buckley discloses a method comprising: receiving a plurality of requests for portions of a JPM file (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*); transmitting a JPM file in parts (page 73, paragraph 1, lines 3-4) in response to the plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*); and sending parts of the JPM file (page 73, paragraph 1, lines 3-4) with an indication of the parts being sent (page 13, paragraph 2, lines 1-2).

93. With respect to claim 77, Buckley discloses the method defined in claim 76 wherein sending parts of the JPM file with the indicating of the parts being sent comprises using an HTTP response (page 26, Section B.1.6 Data Entry URL box) indicating partial content and byte ranges of returned boxes (page 13, paragraph 4, lines 6-8; page 74, Section G.7 Byte Ranges).

94. With respect to claim 78, Buckley discloses the method defined in claim 76 further comprising filling in gaps in a received JPM file with free boxes (page 13, paragraph 5).

95. With respect to claim 79, Buckley discloses the method defined in claim 78 further comprising adjusting size of the free boxes as new data that fills one or more of the gaps in the received JPM file arrives (page 13, paragraph 4-6).

96. With respect to claim 80, Buckley discloses an article of manufacture having one or more recordable media storing executable instructions thereon which, when executed by a system (page 13, paragraph 2, lines 1), cause the system to perform a method comprising:

receiving a plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*) for portions of a JPM file (page 73, paragraph 1);

transmitting a JPM file in parts (page 73, paragraph 1, lines 3-4) in response to the plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*); and

sending parts of the JPM file with an indication of the parts being sent (page 73, paragraph 1, lines 3-4).

97. With respect to claim 81, Buckley discloses a method comprising:

generating a plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*); and

receiving a JPM file in parts (page 73, paragraph 1, lines 3-4) as part of responses to the plurality of requests (page 73, paragraph 1, lines 3-4), wherein at least

one of the parts points to portions of the JPM file received as a previously received part of the JPM file (page 13, paragraph 6, lines 1-5).

98. With respect to claim 82, Buckley discloses an article of manufacture having one or more recordable media storing executable instructions thereon which, when executed by a system (page 13, paragraph 2, lines 1), cause the system to perform a method comprising:

generating a plurality of requests (page 7, paragraph 3, lines 1-2 and 5-8, *a search and next page function*); and

receiving a JPM file in parts (page 73, paragraph 1, lines 3-4) as part of responses to the plurality of requests (page 73, paragraph 1, lines 3-4), wherein at least one of the parts points to portions of the JPM file received as a previously received part of the JPM file (page 13, paragraph 6, lines 1-5).

Conclusion

99. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. Furlan et al	Patent No.	6,331,869
b. Maeda et al	Publication No.	2002/0018598
c. Sirohey et al	Publication No.	2002/0057850
d. Matsubara	Publication No.	2002/0057843
e. Carlsen et al	Patent No.	6,466,210

f. Chan et al	Patent No.	7,110,608
g. Huber et al	Patent No.	6,650,326
h. Robotham et al	Patent No.	6,704,024
i. Tsujii	Patent No.	6,792,153

100. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **BLAKE RUBIN** whose telephone number is (571) 270-3802. The examiner can normally be reached on M-R: 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2157

BJR

/Ario Etienne/

Supervisory Patent Examiner, Art Unit 2157